PTO/SB/01 (03-01)

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Attorney D cket Numb r 06437 USA **DECLARATION FOR UTILITY OR** First Named Inv ntor Bing Ji, et al. **DESIGN** PATENT APPLICATION **COMPLETE IF KNOWN** (37 CFR 1.63) 10/619,922 Application Number Filing Date 15 July 2003 Declaration Declaration Submitted OR Submitted after Initial Group Art Unit 1765 Filing (surcharge (37 CFR 1.16 (e)) with Initial Filina

•	9	required)	Examiner Name						
As a below named inventor, I hereby declare that:									
	My residence, mailing address, and citizenship are as stated below next to my name.								
	I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:								
	USE OF HYPOFLUORITES, FLUOROPEROXIDES, AND/OR FLUOROTRIOXIDES AS OXIDIZING								
	AGENT IN FLUOROCARBON ETCH PLASMAS								
	(Title of the Invention)								
	the specification of which is attached hereto								
	OR								
	x was filed on (MM/DD/YYYY	15 July 2003	as United St	ates Application !	Number or PCT In	iternational			
	Application Number 10/619	922 and was a	amended on (MM/DD/YY	YY)		(if applicable).			
		A Company of the Comp			, , , , , , , , , , , , , , , , , , , ,				
	I hereby state that I have reviewe amended by any amendment spe			ified specification	ı, including the cla	ims, as			
	I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.								
	I hereby claim foreign priority be	nefits under 35 U.S.C. 1	19(a)-(d) or (f), or 365(b)	of any foreign ap	optication(s) for pa	atent, inventor's			
	or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.								
	Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Cop YES	py Attached? NO			
		•							
-									
	Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:								

DECLARATION — Utility or Design Patent Application

CHECK ON CONTROLLENCE IC. 1 A I	Customer Num er Bar Code La		23543		OR 🗌	Cor	respondence address below	
Name								
Address								
Address								
City				State		ZI	P	
Country	Т	elephon	e			Fa	ax	
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.								
NAME OF SOLE OR FIRST INV	ENTOR:			A peti	tion has been	filed	for this unsigned inventor	
Given Name (first and middle [if any]) Bing	Given Name Family Name :							
Inventor's Signature							21 July, 2003 Date	
Residence: City Allentown			PA USA Country			USA Citizenship		
Mailing Address 6736 Windermere	Court							
Mailing Address								
Allentown City	PA State			ZIP	1810		USA Country	
NAME OF SECOND INVENTOR	:			A peti	tion has been	filed	for this unsigned inventor	
Given Name (first and middle [if any]) Stephen A	ndrew			Family or Sun		a		
Inventor's teple Andrew Wolha Dale Try 03								
Residence: City Kutztown			P/ State	4	USA Country		USA Citizenship	
817 Noble Street Mailing Address								
Mailing Address								
City Kutztown	PA State			ZIP	195		USA Country	
Additional inventors are being named on the 2 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.								

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DECLARATION

ADDITIONAL INVENTOR(S)
Supplemental Sheet
Page _ 1 of _ 2

Name of Additional Joint Inventor, if an	y:		A petition has been file	ed for th	is unsigned inventor		
Given Name (first and middle [if any]			Family Name or Surname				
Robert George		Syvret					
Inventor's Signature Dutilogesty	har				JULY 22, 2003 Date		
Residence: City Allentown	PA State	c	USA Country		Canada Citizenship		
Mailing Address 1156 Clearwood Drive							
Mailing Address	· p						
City Allentown	State PA		ZIP 18103-5451	Country	USA y		
Name of Additional Joint Inventor, if an	y:		A petition has been filed for this unsigned inventor				
Given Name (first and middle [if any]		Family Name or Surname					
Peter R.			Badowski				
Inventor's Peter R. Bad	2	Date 7/17/03					
Residence: City White Haven	State PA		USA Country		USA		
Mailing Address 100 Towanda Street							
Mailing Address							
White Haven City	PA State		1866 ZIP	1 Coui	USA ntry		
Name of Additional Joint Inventor, if a	ıy:		A petition has been filed	I for this	unsigned inventor		
Given Name (first and middle [if any]			Family	Name o	or Surname		
Eugene Joseph			Karwacki, Jr.				
Inventor's Signature Sept loses loses	1				Date July 2003		
Orefield Residence: City		USA Country		USA Citizenship			
Mailing Address 5620 Snowdrift Lane							
Mailing Address							
Orefield City	PA State		180 ZIP		USA		

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office. Washington. DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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PTO/SB/02A (11-00)

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DECLARATION

ADDITIONAL INVENTOR(S)
Supplemental Sheet
Page 2 of 2

Name of Additional Joint Inventor, if an	y:	A petition has been filed for this unsigned inventor				
Given Name (first and middle [if any])		Family Name or Surname				
Howard Paul		Withers, Jr.				
Inventor's Signature Soward Pu	ulh	In.	the Dr.		Date / Tuly 03	
Residence: City Breinigsville	PA State		USA/ Country	С	USA itizenship	
Mailing Address 1441 Klines Mill Road						
Mailing Address	.					
City Breinigsville	State PA		ZIP 18031 Co	untry	USA	
Name of Additional Joint Inventor, if an	у:	A petition has been filed for this unsigned inventor				
Given Name (first and middle [if any]))	Family Name or Surname				
Ronald Martin Pearlstein						
Inventor's Signature MANA	feet	21 July 200 Date			21 July 2003 Date	
Residence: City Macungie	State PA		USA Country		USA Citizenship	
Malling Address 118 Brookfield Drive						
Mailing Address						
Macungie City	PA State		18062 ZIP	Coun	USA try	
Name of Additional Joint Inventor, if ar	ıy:		A petition has been filed fo	r this ı	unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname				
Inventor's Signature					Date	
Residence; City		Country		Citizenship		
Mailing Address						
Malling Address						
City State			ZIP	Col	untry	

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PTO/SB/81 (06-03)

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de la respond to a conection of mior	mation unless it displays a valid OMB control number.
Application Number	10/619,922
Filing Date	15 July 2003
First Named Inventor	Bing Ji, et al.
Title	Use of Hypofluorites, Fluoroperoxides
Art Unit	1765
Examiner Name	
Attorney Docket Number	06437 USA

I hereby appoint:							
X Practitioners at Customer Number:	23543						
OR							
Practitioner(s) named below:							
Name	Name Registration Number						
as my/our attomey(s) or agent(s) to prosect Trademark Office connected therewith.	te the application identified above, and t	transact all bus	siness in the Un	nited States Patent and			
Please recognize or change the correspond	lence address for the above-identified ap	olication to:					
The above-mentioned Customer N	lumber:						
OR			1				
The address associated with Cus	lomer Number:						
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Address							
Address							
City	Stat	Э	Zip				
Country ' Telephone	I Cov	<u> </u>					
I am the:	Fax						
Applicant/Inventor.							
Assignee of record of the entire int Statement under 37 CFR 3.73(b) is	erest. See 37 CFR 3.71. s enclosed. (Form PTO/SB/96)			•			
	SIGNATURE of Applicant or Assigne	e of Record					
Name Mark L. Rodgers							
Signature MCL 2 RX							
Date 3 November 2003		Telepho	one 610-48	81-8817			
NOTE: Signatures of all the inventors or assignee forms if more than one signature is required, see the second sec	of record of the entire interest or their representation.	ntative(s) are requ	ired. Submit multi	ple			
*Total of forms are submitted.							

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissi ner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/96 (08-00)

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STATEMENT UNDER 37 CFR 3.73(b)

MON 0 2 50003

Applicant/Pat nt Own r: Bing Ji, et al.						
Application No./Patent No.:10/619,922	Filed/Issue Date: 15 July 2003					
Entitled: Use of Hypofluorites, Fluoroperoxides, and/or Fluorotrioxides as Oxidizing Agent in						
Air Products and Chemicals, Inc. , a corpora						
(Name of Assignee) (Type of Assi	ignee, e.g., corporation, partnership, university, government agency, etc.)					
Office that it is						
states that it is:						
1. X the assignee of the entire right, title, and interest;						
2. an assignee of less than the entire right, title and in the extent (by, percentage) of its ownership interest.	Interest. est is%					
in the patent application/patent identified above by virtue	of either:					
A. [x] An assignment from the inventor(s) of the patent a was recorded in the United States Patent and Tra which a copy thereof is attached.	A. [x] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.					
OR						
B. [] A chain of title from the inventor(s), of the patent a assignee as shown below:						
1. From:	o:					
The document was recorded in the United S Reel, Frame	tates Patent and Trademark Office at, or for which a copy thereof is attached.					
2. From:To						
The document was recorded in the United St	tates Patent and Trademark Office at					
Reel, Frame						
3. From:To	o:					
The document was recorded in the United Si Reel, Frame	ates Patent and Trademark Office at, or for which a copy thereof is attached.					
[] Additional documents in the chain of title are	listed on a supplemental sheet.					
] Copies of assignments or other documents in the chai [NOTE: A separate copy (i.e., the original assignment must be submitted to Assignment Division in accordar recorded in the records of the USPTO. See MPEP 30	document or a true copy of the original document) nce with 37 CFR Part 3, if the assignment is to be					
he undersigned (whose title is supplied below) is authorize	zed to act on behalf of the assignee.					
3 November 2003	Mark L. Rodgers					
Date	Typed or printed name					
-	Signature					
·	Assistant General Counsel, Patents					
-	Title					

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ASSIGNMENT

For value received, we, Bing Ji, Stephen Andrew Motika, Robert George Syvret, Peter R. Badowski, Eugene Joseph Karwacki, Jr., Howard Paul Withers, Jr., and Ronald Martin Pearlstein, hereby sell, assign, and transfer to **AIR PRODUCTS AND CHEMICALS, INC.**, a corporation of the State of Delaware, having an office at 7201 Hamilton Boulevard, Allentown, PA 18195-1501, the entire right, title, and interest in and to the invention relating to

USE OF HYPOFLUORITES, FLUOROPEROXIDES, AND/OR FLUOROTRIOXIDES AS OXIDIZING AGENT IN FLUOROCARBON ETCH PLASMAS

described in our application for Letters Patent of the United States (identified by Docket No. 06347 USA) executed of even date herewith, in and to all Letters Patent which may be issued upon said application, in and to any divisional or reissue applications based thereon, and in and to all Letters Patent upon said invention or improvements which may be granted in foreign countries. We hereby also assign and convey to said **AIR PRODUCTS AND CHEMICALS**, **INC.**, all the rights accruing to us by virtue of the International Convention for the Protection of Industrial Property (Art. 4), including the right to apply for and to have patents issued in its own name.

And we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and the Officials of the Patent Offices of all other countries to issue the Letters Patent of their respective countries to said **AIR PRODUCTS AND CHEMICALS, INC.**, as assignee of the entire right, title, and interest in and to the same.

And we hereby promise and agree to execute all papers and perform all acts necessary to secure to and vest in said **AIR PRODUCTS AND CHEMICALS, INC.**, its successors and assigns, the rights conveyed as herein set forth.

	Bing Ji	_(L.S.)	Stephen Andrew Motika Stephen Andrew Motika
	Date Date Post Coorge Syrrer	_ _(L.S.)	Date Deter R. Badowski Deter R. Badowski
	July 22, 2003 Date	_	7/17/03 Date
6	Eugene Joseph Karwacki, Jr.	_(L.S.)	Howard Paul Withers, Jr.
	21 July 2013 Date	_	7/17/03 Date
	Ronald Martin Pearlstein	_(L.S.)	
	21 July 2003 Date	_	